

# SYSTEM AND METHOD FOR PROVIDING A JAVA CODE RELEASE INFRASTRUCTURE WITH GRANULAR CODE PATCHING

## Abstract

A system and method for providing a Java code release infrastructure with granular code patching is described. One or more Java code patches, each including at least one resource unit are provided. Each resource unit includes metadata and file components. One or more Java code libraries, each including at least one resource unit, are patched. The metadata for each resource unit in the Java code patches is compared to the metadata for each such corresponding resource unit in the Java code libraries. Each resource unit in the Java code patches is merged into the Java code libraries for each such corresponding resource unit that is out-of-date as defined by merge rules. Java archive files, as defined by Java archive file definitions, are created or updated using the resource units from the Java code libraries, or, optionally, are deleted. The Java archive files are digitally signed also as required. The system and method enables Java source and derived code, non-Java source, derived code, and third party code to be patched granularly.